

In the Claims:

Listing of all claims:

1-37. (Cancelled.)

1                    38. (Original)        A system for welding  
2       comprising:  
3                    a welding power source having a welding power  
4       output;  
5                    a wire feeder connected to the welding output and  
6       having a speed control input; and  
7                    a controller having a speed control output  
8       connected to the speed control input having a weld wire  
9       speed set point, and a run-in wire speed set point, wherein  
10      the run-in speed set point is a set percentage of the weld  
11      wire speed set point.

1                    39. (Original)        The system of claim 38, wherein the  
2      set percentage is a user selectable percentage.

1                    40. (Original)        The system of claim 39, wherein the  
2      percentage is between 25 percent and 150 percent.

1                    41. (Original)        The system of claim 39, wherein the  
2      system includes a weld wire feed user input, and wherein the  
3      controller includes a run-in set circuit including a percent  
4      input connected to the user input and an enable input.

1           42. (Original)       The system of claim 41, wherein the  
2 enable input receives a trigger state signal and a power-up  
3 signal.

1           43. (Original)       The system of claim 42 wherein the  
2 user input is a potentiometer.

1           44. (Original)       The system of claim 43, wherein the  
2 enable input is connected to a user selectable toggle switch.

3           45. The system of claim 38 wherein the controller is a  
4 microprocessor controller.

1           46. (Original)       The system of claim 38 wherein the  
2 controller is an analog controller.

1           47. (Original)       A system for welding  
2 comprising:  
3           power means for supplying welding power to an arc;  
4           feeder means for feeding wire to the arc; and  
5           control means for controlling a speed of the  
6 feeder means to a weld speed and a run-in speed, wherein the  
7 run-in speed set point is a set percentage of the weld speed  
8 set point, connected to the feeder means.

1           48. (Original)       The system of claim 47, further  
2 comprising means for allowing the user to select the set  
3 percentage, connected to the control means.

1                   49. (Original)       A method of welding  
2       comprising:  
3                   providing welding power to an arc;  
4                   feeding wire to the arc;  
5                   controlling the speed of the wire during a run-in  
6       state; and  
7                   controlling the speed of the wire during a weld  
8       state, wherein the run-in speed set is a set percentage of  
9       the weld speed.

1                   50. (Original)       The method of claim 49, including  
2       using a user selectable percentage as the set percentage.

1                   51. (Original)       The method of claim 50, including  
2       using the set percentage from the range of between 25 percent and  
3       150 percent.

1                   52. (Original)       The method of claim 51, including  
2       determining the user selected percentage speed in response to an  
3       enable signal and a weld wire feed user input.

1                   53. (Original)       A welding-type power supply,  
2       comprising:  
3                   a power source;  
4                   a controller, connected to the power source, and  
5       having at least one set point input, and at least one  
6       calibration input;  
7                   a user-selectable input connected to the at least  
8       one set point input, and further connected to the at least  
9       one calibration input.

1           54. (Original)       The welding-type power supply of  
2 claim 53, further comprising an input-selection circuit,  
3 connected to the controller, wherein the controller enables one  
4 of the calibration input and set point input, and disables the  
5 other of the set point input and calibration input.

1           55. (Original)       The welding-type power supply of  
2 claim 54, further comprising a user-selectable switch connected  
3 to the input-selection circuit.

1           56. (Original)       The welding-type power supply of  
2 claim 55, wherein the user selectable switch is a toggle switch.

1           57. (Original)       The welding-type power supply of  
2 claim 56, wherein the user-selectable input is a potentiometer on  
3 a user control panel.

1           58. (Original)       The welding-type power supply of  
2 claim 54, wherein the controller is a microprocessor controller.

1           59. (Original)       The welding-type power supply of  
2 claim 58, wherein the microprocessor controller includes storage  
3 of at least one user-selected calibration value received on the  
4 calibration input.

1           60. (Original)       The welding-type power supply of  
2 claim 59, wherein the microprocessor controller includes storage  
3 of at least two user-selected calibration values received on the  
4 calibration input, and wherein the microprocessor includes a

5 scaling circuit that scales at least one of a command output or a  
6 feedback output responsive to the at least two user-selected  
7 calibration values.

1           61. (Original)       The welding-type power supply of  
2 claim 60, wherein the microprocessor controller includes a  
3 digital output disposed to output the at least two user-selected  
4 calibration values.

1           62. (Original)       The welding-type power supply of  
2 claim 55, further comprising a calibration pendant, on which the  
3 toggle switch is mounted.

1           63. (Original)       The welding-type power supply of  
2 claim 53, wherein the calibration input is an output voltage  
3 calibration input.

1           64. (Original)       The welding-type power supply of  
2 claim 53, further comprising:  
3           a wire feeder connected to the controller; and  
4           a second user selectable input; wherein  
5           the controller includes a wire feed speed calibration  
6 input and a wire feed speed set point input, both connected to  
7 the second user-selectable input.

1           65. (Original)       A welding-type power supply,  
2 comprising:  
3           power means for providing power;  
4           input means for receiving user-selectable input;  
5 and

6 control means, connected to the input means and  
7 the power means, for controlling the power means, and for  
8 selectively choosing one of a set point and a calibration  
9 value as a value received from the input means.

1 66. (Original) The welding-type power supply of  
2 claim 65, further comprising means for the user to selectively  
3 choosing one of the set point and the calibration value as the  
4 value received from the input means.

1 67. (Original) The welding-type power supply of  
2 claim 65, including means for storing at least one user-selected  
3 calibration value received on the calibration input.

1 68. (Original) A method of calibrating a  
2 welding-type power supply, of the type having a user-  
3 selectable set point input, comprising:

4 detecting whether or not the power supply is in a  
5 calibration mode;

6 receiving a value from the user-selectable set  
7 point input as a calibration value if the power supply is in  
8 the calibration mode; and

9 receiving a value from the user-selectable set  
10 point input as a set point value if the power supply is not  
11 in the calibration mode.

1 69. (Original) The method of claim 68, further  
2 comprising receiving a user-selection indicating if the power  
3 supply is in the calibration mode.

1                   70. (Original)       The method of claim 68, further  
2   comprising storing the calibration value.